SEQUENCE LISTING (1) GENERAL INFORMATION: (i i i) NUMBER OF SEQUENCES: 14 (2) INFORMATION POR SEQ ID NO:1: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 bases (B) TYPE: nucleic seid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (i i) MOLECULE TYPE: DNA (genomic) (\mathbf{x} i) SEQUENCE DESCRIPTION: SEQ ID NO:1: TGCCCAGCTC CTGGCCCGCC GCTT 2 4 (2) Information for seq id no.2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 bases (B) TYPE: puckele seid (C) STRANDEDNESS: single (D) TOPOLOGY: Hucar (i i) MOLECULE TYPE: DNA (genomic) (x i) SEQUENCE DESCRIPTION: SEQ ID NO:2: GTGCATCAAC ACAGGCGCCT CTTC 24 (2) INFORMATION FOR SEQ ID NO:3: (i) SEQUENCE CHARACTERISTICS: (A) LENOTH 27 bases (B) TYPE: modeic acid (C) STRANDEDNESS; single (D) TOPOLOGY: linear (i i) MOLECULE TYPE: DNA (genomic) . (x i) SEQUENCE DESCRIPTION: SEQ ID NO.3: TTCAAATGAG ATTGTGGGAA AATTGCT 27 (2) INFORMATION FOR SEQ ID NO.4: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 bases (B) TYPE: nucleic soid (C) STRANDEDNESS: miglo (D) TOPOLOGY: Encur

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(i i) MOLECULE TYPE: DNA (genomic)	
(x 1) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
AGATCATCTC TGCCTGAGTA TCTT	2 4
(2) INFORMATION FOR SEQ ID NO.5:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 24 bases	
(B) TYPE: motivic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: Encur	
(i i) MOLECULE TYPE: DNA (genomic)	
(* i) SEQUENCE DESCRIPTION: SEQ ID NO.5;	
CCACCCATGG CAAATTCCAT GGCA	2 4
(2) INFORMATION FOR SEQ ID NO:6:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENOTH: 24 bases	
(B) TYPE: markin acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(i i) MOLECULE TYPE: DNA (genomic)	
(x i) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
TCTAGACGOC AGGTCAGGTC CACC	2 4
(2) INFORMATION FOR SEQ ID NO:7:	
(i) SEQUENCE CHARACTERISTICS:	•
(A) LENGTH: 12 amino scieds	
(B) TYPE amino acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(i i) MOLECULE TYPE: protein	
(x i) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
Asp Asp Ilc Asb Pro Thr Val Len Len Lys Glu Arg	
1 5 10	
(2) Information for seq id no.8:	
()) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 23 bases	
(B) TYPE: nucleic seid	•
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(i i) MOLECULE TYPE: DNA (genomic)	
(x i) sequence description: seq id no.2:	
CTGCGATGCT CGCCCGCGC CTG	2 3
(2) INFORMATION FOR SEQ ID NO-9:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 24 bases	
(B) TYPE: maxleix acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: finear	
(i i) MOLECULE TYPE: DNA (genomic)	
(- i) SEQUENCE DESCRIPTION, SEQUENCE	

CTTCTACAGT TCAGTCGAAC GTTC

2 4

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 604 ambso acids (B) TYPE: amiso acid (C) STRANDEDNESS: ringle
 - (D) TOPOLOGY: Sincar

(i i) MOLECULE TYPE proxim

(x i) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Met Lev Ala	Arg Ala	Leu Lea	Les Cys	Ala Val Le 10	s Ala Les	Sor Hir 15
The Als Ass	Pro Cys 20	Cy: Str	Hi: Pro 25	Cys Gla As	n Arg Gly 30	Val Cys
Mos Ser Val 35	Gly Phe	Asp Gla	Tyr Lys	Cy: Asy Cy	# Thr Arg	The Gly
Phe Tyr. Gly	Gla Asa	Cy + . 3 e r 5 5	The Pro	Glu Phe Le	m Thr Arg	Ile Lyı
Les Phe Les	Тук Рго	Tbr Pro 70	Asp Thr	Val His Ty	r lle Leu	Thr His
Phc Lys Gly	Phe Trp 85	Asn Val	Val Ass	Ass lle Pr 90	o Phe Len	Arg Arn 95
Ala Ile Mei	Ser Tyr	Val Lou	Thr Ser 105	Arg Ser Hi	z Leu Ile 110	Asp Scr
Pro Pro Thi		Ala Asp	Tyr Gly	Tyr Lys Se	r Try Glu 125	Ala Phr
Ser Ass Lea	Ser Tyr	Tyr Thr 135		Leu Pro Pr 14		Asp Asp
Cys Pro Thr	Pro Leu	Gly Val	Ly: Gly	Ly: Ly: G1 155	n Lev Pro	Asp Scs 160
Asn G) v II e	Val Glu 165		Les les	Arg Arg Ly	s Phe lle	Pro A:p
Pro Gla Gly	Ser Asn 180	Mei Mei	Phe Ala	Phe Phe Al	6 Gln His	Phc Thr
Bis Ola Phe		The Asp	His Lys 200	Arg Gly Pr	o Ala Phe 205	Thr Ain
Gly Len Gly	Hir Gly	Val Asp 215	Les Asa	His Ile Ty	r Gly Gla	The Lev
Ala Arg Gla 225	Arg Lys	Len Arg 230	Len Phe	_		Lys Tyr 240
Gla lle Ile	Asp Gly 245	Gla Met	Tyr Pro	Pro Thr Va	l Lys Asp	The Gla
Ala Glo Met			Gla Val 265	Pro Gla Hi		
Val Gly Gla 275	Glo Vai	Phe Gly	Les Val	Pro Gly Le		Tyr Ala
The lie Trp	Lco Arg		280 Asn Arg		285 p Val Lev	Lys Gla
290 Gla His Pro	Gla Trp	295 Gly Asp	Glo Glo	Len Phe Gi		Arg Len
305		310		3 1 5		3 2 0
	Gly Glu 325			Val II o G1 330	- •	3 3 5
His Len Scr	Gly Tyr	Bls Phe	Lys Lev	Lys Phe As	p Pro Glu	Leo Leo

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Tyr Asm Tyr Glm Glm Phe Ile Tyr Asm Asm Ser Ile Len 390 395 400 Lon Glu His Gly lie Thr Glu Phe Val Glu Ser Phe Thr Arg Glu 405 410 410 Ala Gly Arg Val Ala Gly Gly Arg Aza Val Pro Pro Ala Val Glu Lyz
- 420 425 430 Ser Olm Alm Ser lle Asp Olm Ser Arg Glm Mei Lys Tyr Glm Ser 435 - 440 445 Phe Ash Glo Tyr Arg Lys Arg Phe Met Les Lys Pro Tyr Glo Ser Phe 450 455 Giu Len Thr Gly Glu Lys Giu Met Ser Ala Giu Lea Glu Ala Leu 470 475 Asp lle Asp Ala Val Glu Leu Tyr Pro Alz Leu Leu Val Glu 485 495 Pro Phe Ser Leu Lys Gly Leu Mei Gly Ash Val Ile Cys Ser Pro 515 520 525 Tyr Trp Lys Pro Ser Tbr Phe Gly Gly Glu Val Gly Phe Gla Ile 530 540 Asn Thr Ala Ser lie Gln Ser Len lie Cys Asn Asn Val Lys Gly 550 560 Pro Phe Thr Ser Phe Ser Val Pro Asp Pro Gla Leu Ile Lys 565 570 lic Asn Ala Ser Ser Ser Arg Ser Gly Len Asp Asp 11e Asn 580 590 Pro Thr Val Leu Leu Lys Glu Arg Ser Thr Glu Leu 595

(2) INFORMATION FOR SEQ ID NO.11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3387 bases
 - (B) TYPE: puckic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY; linear
- (i i) MOLECULE TYPE: DNA (genomic)
- (x i) SEQUENCE DESCRIPTION: SEQ ID NO:11:

OTCCAGGAAC TCCTCAGCAG CGCCTCCTTC AGCTCCACAG CCAGACGCCC TCAGACAGCA 6 D AAGCCTACCC CCGCGCCGCG CCCTGCCGGC CGCTGCGATG CTCGCCCGCG CCCTGCTGCT GTGCGCGGTC CTGGCGCTCA GCCATACAGC AAATCCTTGC TGTTCCCACC CATGTCAAAA 1 8 0 CCGAGGTGTA TOTATGAGTG TOGGATTTGA CCAGTATAAG TGCGATTGTA CCCGGACAGG 2 4 0 ATTCTATGGA GAAAACTGCT CAACACCGGA ATTTTTGACA AGAATAAAAT TATTTCTGAA ACCCACTCCA AACACAGTOC ACTACATACT TACCCACTTC AAGGGATTTT GGAACGTTGT 3 6 0 GAATAACATI CCCTTCCTTC GAAATGCAAT TATGAGTTAT GTGTTGACAT CCAGATCACA 420 TTTGATTGAC AGTCCACCAA CTTACAATGC TGACTATGGC TACAAAAGCT GGGAAGCCTT CTCTAACCTC TCCTATTATA CTAGAGCCCT TCCTCCTGTG CCTGATGATT GCCCGACTCC 5 4 9

CTTGGGTOTC AAAGGTAAAA AGCAGCTTCC TGATTCAAAT GAGATTGTGG AAAAATTGCT 600 TCTAAGAAGA AAGTTCATCC CTGATCCCCA GGGCTCAAAC ATGATGTTTG CATTCTTTGC 660 CCAGCACTIC ACGCACCAGT TITICAAGAC AGATCATAAG CGAGGGCCAG CITICACCAA 7 2 0 CGGGCTGGGC CATGGGGTGG ACTTAAATCA TATTTACGGT GAAACTCTGG CTAGACAGCG 7 1 6 TAAACTGCGC CTTTTCAAGG ATGGAAAAAT GAAATATCAG ATAATTGATG GAGAGATGTA 8 4 6 TECTECEACA GTEAAAGATA ETEAGGEAGA GATGATETAE CETECTEAAG TECETGAGEA 900 TCTACGGTTT GCTGTGGGGC AGGAGGTCTT TGGTCTGGTG CCTGGTCTGA TGATGTATGC 960 1020 ATGGGGTGAT GAGCAGTTGT TCCAGACAAG CAGGCTAATA CTGATAGGAG AGACTATTAA 1080 GATTOTGATT GAAGATTATG TGCAACACTT GAGTGGCTAT CACTTCAAAC TGAAATTTGA 1140 CCCAGAACTA CTTTTCAACA AACAATTCCA GTACCAAAAT CGTATTGCTG CTGAATTTAA 1200 CACCCTCTAT CACTGGCATC CCCTTCTGCC TGACACCTTT CAAATTCATG ACCAGAAATA 1260 CAACTATCAA CAGTTTATCT ACAACAACTC TATATTGCTG GAACATGGAA TTACCCAGTT 1320 TGTTGAATCA TTCACCAGGC AAATTGCTGG CAGGGTTGCT GGTGGTAGGA ATGTTCCACC 1380 CGCAGTACAG AAAGTATCAC AGGCTTCCAT TGACCAGAGC AGGCAGATGA AATACCAGTC TTTTAATGAG TACCGCAAAC GCTTTATGCT GAAGCCCTAT GAATCATTTG AAGAACTTAC 1 5 0 D AGGAGAAAAG GAAATGTCTG CAGAGTTGGA AGCACTCTAT GGTGACATCG ATGCTGTGGA 1560 GCTGTATCCT GCCCTTCTGG TAGAAAAGCC TCGGCCAGAT GCCATCTTTG GTGAAACCAT GGTAGAAGTT GGAGCACCAT TCTCCTTGAA AGGACTTATG GGTAATGTTA TATGTTCTCC 1610 TGCCTACTGG AAGCCAAGCA CTTTTGOTGG AGAAGTGGGT TTTCAAATCA TCAACACTGC 1740 CTCAATTCAG TCTCTCATCT GCAATAACGT GAAGGGCTGT CCCTTTACTT CATTCAGTGT 1800 TCCAGATCCA GAGCTCATTA AAACAGTCAC CATCAATGCA AGTTCTTCCC GCTCCGGACT 1860 AGATGATATC AATCCCACAG TACTACTAAA AGAACGGTCO ACTGAACTGT AGAAGTCTAA 1920 TGATCATATT TATTTATITA TATGAACCAT GTCTATTAAT TTAATTATTT AATAATATTT 1980 ATATTAAACT CCTTATGTTA CTTAACATCT TCTGTAACAG AAGTCAGTAC TCCTGTTGCG 2 0 4 D OAGAAAGGAG TCATACTIGT GAAGACTITT ATGTCACTAC TCTAAAGATT TTGCTGTTGC TGTTAAGTTT GGAAAACAGT TTTTATTCTG TTTTATAAAC CAGAGAGAAA TGAGTTTTGA 216D CGTCTTTTA CTTGAATTTC AACTTATATT ATAAGGACGA AAGTAAAGAT GTTTGAATAC 2220 TTAAACACTA TCACAAGATG CCAAAATGCT GAAAGTTTTT ACACTGTCGA TGTTTCCAAT GCATCTICCA TGATGCATTA GAAGTAACTA ATGTTTGAAA TTTTAAAGTA CTTTTGGGTA 2340 TTTTTCTGTC ATCAAACAAA ACAGGTATCA GTGCATTATT AAATGAATAT TTAAATTAGA 2400 CATTACCAGT AATTTCATGT CTACTTTTTA AAATCAGCAA TGAAACAATA ATTTGAAATT 2460 TCTAAATTCA TAGGGTAGAA TCACCTGTAA AAGCTTGTTT GATTTCTTAA AGTTATTAAA 2520 CTTGTACATA TACCAAAAAG AAGCTGTCTT GGATTTAAAT CTGTAAAATC AGATGAAATT 2510 TTACTACAAT TGCTTGTTAA AATATTTTAT AAGTGATGTT CCTTTTTCAC CAAGAGTATA 2640 AACCTTTTTA GTGTGACTGT TAAAACTTCC TTTTAAATCA AAATGCCAAA TTTATTAAGG 2700 TGGTGGAGCC ACTGCAGTGT TATCTCAAAA TAAGAATATC CTGTTGAGAT ATTCCAGAAT 2760 CTGTTTATAT GGCTGGTAAC ATGTAAAAAC CCCATAACCC CGCCAAAAGG GGTCCTACCC 2820 TTGAACATAA AGCAATAACC AAAGGAGAAA AGCCCAAATT ATTGGTTCCA AATTTAGGGT TTAAACTITT TGAAGCAAAC TTTTTTTTAG CCTTGTGCAC TGCAGACCTG GTACTCAGAT 2940

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	27		-continued		28	
TTTGCTATGA	GGTTAATGAA	GTACCAAGCT	GTGCTTGAAT	AACGATATGT	TTTCTCAGAT	3000
TTTCTGTTGT	ACAGTTTAAT	TTAGCAGTCC	ATATCACATT	GCAAAAGTAG	CAATGACCTC	3060
ATAAAATACC	TCTTCAAAAT	GCTTAAATTC	ATTTCACACA	TTAATTTTAT	CTCAGTCTTG	3120
AAGCCAATTC	AGTAGGTGCA	TTGGAATCAA	GECTOGETAC	CTGCATGCTG	TTCCTTTTCT	3 1 8 0
TTTCTTCTTT	TAGCCATTTT	GCTAAGAGAC	ACAGTCTTCT	CAAACACTTC	GTTTCTCCTA	3240
	CTAGTTTTAA					3300
	TTTGCAAGTT					3 3 6 0
	TAAAAAAAA					3 3 8 7
(2) INFORMATION	FOR SEQ ID NO:12:					
(i)SEQ	UENCE CHARACTERIST	CS:				
	(A) LENGTH: 21 bases		,			
	(B) TYPE: mockic acid					
	(C) STRANDEDNESS:					
	(D) TOPOLOGY: linear					
(ii) MOL	ECULE TYPE: DNA (gcd	mric)				
(x i) SEQ	UENCE DESCRIPTION: \$	EQ ID NO:12:				
CCTTCCTTCG	AAATGCAATT	A	,			2 1
(2) INFORMATION	FOR SEQ ID NO:13:					
(i)SEQ	UENCE CHARACTERIST	ICS:				
	(A) LENGTH: 21 bases	ı				
	(B) TYPE: mockie said					
	(C) STRANDEDNESS:					
	(D) TOPOLOGY: Macen					
·	LECULE TYPE: DNA (ges					-
	(UENCE DESCRIPTION: S					. 21
AAACTGATGC	GTGAAGTGCT	G ;				21
(2) INFORMATION	FOR SEQ ID NO:14:	•				
(i) SEC	UENCE CHARACTERIST	TECS:				
	(A) LENGTH: 2) base					
	(B) TYPE: meleic seic	l	•			
	(C) STRANDEDNESS					
	(D) TOPOLOGY: lines	f				
(; i)MO	LECULE TYPE: DNA (go	nomic)				
4 - 1 1000	BIENCE DESCRIPTION	SEO ID NO-14-				

GAGATTGTGG GAAAATTGCT T

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